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"Paz en el Pais, Paz en el Mundo" Mustafa Kemal ATATÜRK (1881-10 Noviembre, 1938) Fundador de la Republica de Turquia

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Research Article

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Observations and faunistic notes on some Hemiptera and Homoptera of Bahcesaray district (Van Province, East Turkey)

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Abstract: Observations and faunistic notes on some Hemiptera and Homoptera of Bahçesaray district (Van Province, East Turkey). Cesa News 143: 1-20, 43 figs.

In this paper, the first attempt at the beginning level on the fauna of Hemiptera of Bahçesaray was made by the authors. Totally 62 species of 15 families are listed with synonyms, and distributional codes. Totally 16 species are mentioned here as new for the fauna of Van Province. Observations realized during the field studies of the authors are supplemented with pictures. Identities of some species are discussed.

Key words: Hemiptera, Homoptera, fauna, Bahçesaray, Van, Turkey.

The authors realized several entomological trips to the district Bahcesaray (Van Province, East Turkey), in order to determine the Lepidoptera fauna, which was completely unknown. The first results on the Lepidoptera fauna were published in 2016 and 2017, comprising 663 species (Kemal, Koçak & Ecer, 2016; Kemal & Koçak, 2016a-c, 2017a-c).

The authors investigated other pterygot groups in Bahçesaray to some degree. Now, there is a small collection, created by the authors in the last years, on other insect groups of Bahçesaray, comprising more than 210 species, preserved currently in the Collection of the Cesa. Recently, perhaps the most interesting finding was about the invasion of *Polysarcus elbursianus* (Tettigoniidae, Orthoptera) in Bahçesaray, a serious pest to the orchards (Kemal et al., 2016).

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In the present, and following papers in this serial, the observations on the pterygots of Bahçesaray will be evaluated primarily, from the faunistical standpoint.

The Hemiptera and Homoptera fauna of Van Province is currently very little known. Observational notes were published by the author in various faunistical publications (Kemal & Koçak, 2008, 2010a-b, 2013, 2014a-b, 2016d-e; Kemal & Bakan, 2011; Kemal et al., 2013; Koçak & Kemal, 2010).

The present paper comprises 62 species of 15 families (Aludidae, Coreidae, Cudnidae, Lygaeidae, Miridae, Nabidae, Pentatomidae, Pyrrhocoridae, Reduviidae, Rhopalidae, Scutelleridae, Cercopidae, Dictyopharidae, Issidae, Ricaniidae), recorded from the Baĥcesarav district for the first time. Thus, the total number of the Pterygota fauna of Bahçesaray (incl. Lepidoptera) reached to 725. To each species, synonymous names, and the range as codes are added (Koçak & Kemal, 2017). Faunistically, 16 species are reported here as new for the fauna of Van Province. Some species, where observed in their living places of Bahçesaray are illustrated.

List of the Hemiptera species

Alydidae

Dursun, et al., 2010.

1. Camptopus bifasciatus Fieber, 1864

Synonym: bifasciatus Fieber,1864 Range (in codes): Cc AZ Nv TR IR Fa Ke Se Th AM RU o5 o6 23 28 44 56 60 65 76 56F 56F1 65A 65Ai 65D 65Dn 65N 65Nb 65Np 65Nm 76B 76Bb

2. Camptopus lateralis (Germar, 1817) (Figs. 1, 2)

Synonyms: lateralis Germar, 1817; annulatus Brullé, 1832; geranii Dufour, 1833; marginalis Herrich-Schäffer, 1835; occipes Herrich-Schäffer,1835; brevipes Herrich-Schäffer,1840; undulatus Westwood,1842; obscurus Reuter,1890 Range (in codes): PT TR AF Cc IL Pa IQ IR Ar Ab Fa Go Ke Kh Mz Se Th Ak PK IN TJ SY CN Ui 04 06 09 11 13 15 16 17 20 21 22 23 24 25 26 28 29 30 31 32 33 34 35 36 38 39 41 42 43 46 47 48 49 50 54 55 56 58 59 60 62 63 64 65 66 73 75 76 13G 13Gö 13Gŏ 31F 56D 56Db 65A 65Ac3 65Ai 65Am 65Am2 65Am3 65Am4 65Au 65At 65At3 65F 65Fp 65Dç 65Fz 65N 65Np5 65Nm 73A 73Ad 73Ak

Material examined: 2 ex from Bahçesaray, Upper Mukus Valley 1850m (65Am2, 65Am3) 24 6, 4 7, 2016; 1 ex Altındere 1820m (65At3) 26 6 2016; 1 ex Pasaköy 1600m (65Ai) 25 6 2016; 1ex Liman, Spindaran 2320m 10 8 2016, M. Kemal & A.Kocak leg. (Cesa)

3. Camptopus tragacanthae (Kolenati, 1845)

Svnonvm: tragacanthae Kolenati,1845 Kemal & Koçak, 2014b: 29, fig.36. Range (in code): IR Go Th Ke Kh Ss Ab Ar Cc AZ TR UZ TJ RU AF CN Ui 06 11 13 16 17 23 35 36 38 46 50 58 60 65 76 13A 13Aç 13Ae 13Ax 13B 13Bg 13Gw 65A 65Ai 65F 65Fz 65N 65Nr3 65Nr4 65Nm 76C

Material examined: 1 ex from Bahçesaray, Paşaköy 1600m (65Ai) 22 10 2016, M. Kemal & A.Koçak leg. (Cesa)

Coreidae

CoreoideaSF Team, 2017.

4. Coreus marginatus (Linnaeus, 1758) (Fig. 4)

Synonyms: marginatus Linnaeus,1758; auriculatus De Geer,1773; rostratus Goeze,1778; serratum Thunberg,1825; fundator Herrich-Schäffer, 1833; longicornis A.Costa, 1842; inermis Kolenati, 1845; syriacus Blöte, 1935 Kemal & Koçak, 2014b: 27, fig.33.

Range (in codes): AL AD AT BE B-H BG BY HV CZ DK EE FI FR GB DE GR HU IE IT LT LV MK MD NL NO PL PT RO SK SS ES CH UA YU DZ AZ Cc AM KG GG IL Pa LB SY TR IR Ak Koa IQ TJ RU CN Ui Nra Kun TJ TM UZ KP KR Us JP 01 04 06 08 09 10 11 12 13 17 20 22 23 25 31 34 35 36 41 48 49 56 65 73 76 12A 12Ab 13A 13Ac 13Ax 31F 31K 31Ka4 31M 56F 56Fa 56F1 65A 65Am 65Am 65Au 65F1 65F2 73D 73Df 76B 76Bd 76Bf 76Bm

5. Coriomeris affinis (Herrich-Schäffer, 1839)

Synonyms: affinis Herrich-Schäffer,1839; spinolae Costa,1843; fraudatrix Reuter,1900; planicornis Lindberg,1923; aeguptius Schmidt.1939 Range (in codes): PT ES Cn MA DZ TN LY FR IT YU RO CY GR TR GB SE Cc IR EG EG11 IL Pa Hf 31 49 50 65 65A 65Am 65Am1

Material examined: 1 ex from Bahçesaray, Upper Mukus Valley 1760m (65Am1), on 10 5 2016, M. Kemal & A.Koçak leg. (Cesa)

6.Coriomeris denticulatus (Scopoli,1763)

Synonym: denticulatus Scopoli,1763

Kemal & Koçak, 2014a: 133, fig.165. Kemal & Koçak, 2014b: 28, fig.34.

Range (in codes): IL Pa TR SY Cc CN Ui o4 o6 o9 10 16 17 23 30 31 35 36 42 65 76 30B 30Br 36D 36Db 65A 65Aö 65N 65Np 65Nr 65Nm 76C

Material examined: 1 ex from Bahçesaray, Su Fabrikası 1570m (65Aö), 26 5 2016, M. Kemal & A.Koçak leg. (Cesa)

Remarks: The genus *Coriomeris* is one of the most difficult group in specific identifying in the family *Coreidae*. Two specimens were obtained in the district from two different habitats. According to the species key, based especially on the antennal hairs, number of spines on the lateral margin of pronotum, and the spines of posterior femur (Lindberg, 1923), the authors identified them as *affinis* and *denticulatus* with some hesitations (Figs. 42, 43).

Both species are apparently new to the fauna of Van Province!

7. Enoplops disciger (Kolenati, 1845) (Figs. 5, 6)

Synonym: disciger Kolenati,1845 Range (in codes): Cc TR IR BG GR MK RO AZ AM GG IQ IL Pa JO SY 01 04 06 15 31 35 36 45 48 49 65 76 31M 65A 65Ai 65D 65Dn 65F 65Fz 65N 65Nc 65Nc4 65Ns 65Nm 76B 76Bf 76Bh 76Bi

8.Haploprocta sulcicornis (Fabricius,1794) (Fig. 7)

Synonyms: sulcicornis Fabricius,1794; rotundiventris Spinola,1837; reyi Puton,1872; lusitanica Seabra,1928; punctata Seabra,1928; maroccana Lindberg,1932; insularis Lindberg,1953 Range (in code): Cn PT ES FR IT DE PL HU YU RO MK GR MA DZ TN LY EG JO CY TR 06 09 10 16 23 65 65A 65Ai 65An

Material examined: 1 ex from Bahçesaray, Vasting 1660m (65An), 4 6 2016, M. Kemal & A.Koçak leg. (Cesa).

This species was recorded from Paşaköy and Vasting in the district. New to the fauna of Van Province!

9.Syromastus rhombeus (Linnaeus, 1767) (Fig. 8)

Synonym: rhombeus Linnaeus,1767; quadratus Fabricius,1775; sinuata Fieber,1861; fusca Vidal,1936

Kemal & Koçak, 2010b: 29, fig.29. Kemal & Koçak, 2014a: 134, fig.167. Kemal & Koçak, 2014b: 28, fig.35.

Range (in codes): Cn MA DZ TN Md PT ES FR GB SE DK DE BY UA PL CZ SK HU MD RO SS B-H HV AL MK BG GR CY CH AT IT Sa Si TR Cc AZ AM GG IR AF CN KG IQ IL Pa LB SY TJ TM UZ 01 06 08 09 10 13 16 22 23 30 31 32 34 35 36 45 50 56 65 73 76 13F 13G 13Gö 13Gğ 30D 30Df 31M 34R 34Rb 56D 56Dc 56F 56Fp 65A 65Ai 65Am4 65D 65Dh 65F 65Fb 65Fb 65Fb 65Fb 65Np 65Np 65Np 265Nm 73A 73Ak 76B 76Bf 76Bh 76Bj

Material examined: 1 ex from Bahçesaray, Paşaköy 1560m (65Ai) 9 5 2016, M. Kemal & A.Koçak leg. (Cesa). It was also observed by the first author at Upper Mukus Valley 1840m (64Am4) on 24 5 2016.

Cydnidae

Lis, 1999; Yazıcı et al., 2015.

10. Canthophorus melanopterus (Herrich-Schäffer, 1835) (Fig. 9)

Synonyms: melanopterus Herrich-Schäffer,1835; niger Vidal,1949; contrarius E.Wagner,1956 Range (in codes): Cn MA DZ TN LY EG AZ AM GG IR CY IL Pa JO SY IQ TJ AL AT B-H BG CZ SK GR HU IT MT MD PT RO RU SS ES UA HV MK YU TR CN 65 76 65A 65As 65B 65Bn 65Bn 65Fd 65Fd 65Fz 65N 65Np 65Nm 76B 76Bf 76Bh

11. Tritomegas sexmaculatus (Rambur, 1839)

Synonym: sexmaculatus Rambur,1839 Range (in codes): ES An AL AT B-H BG HV CZ FR DE GR HU IT MK MD NL PL PT RO RU SK SS ES CH UA YU Cc TR AM AZ GG IR 13 16 22 25 33 34 39 55 59 65 75 76 13G 13Gö 13Gŏ 33A 65A 65Ap 65F 65Fz 75F 76C

Lygaeidae

Péricart, 1998a-c.

12.Horvathiolus superbus (Pollich, 1779) (Fig. 10)

Synonyms: superbus Pollich,1779; punctatoguttatus Fabricius,1781; discolor Gmelin,1790; schummelii Schilling,1829; melanogaster Horvath,1899; confluens Horvath,1916; sanctus Horvath,1916; kolenatii Horvath,1916; erythropus Horvath,1916; conjunctus Mancini,1952 Range (in codes): Cn AL AT BE B-H Mst BG Vrn HV CZ FR GB DE HU IT MT MK PT RO Bnt Do RU Or Da ES TR Cc IR IL Pa Hf JO Cr TJ TM SK UA Cm Lvv YU AZ AF Bak Kir Nv AM Eri GG KG CN CY IR KK MN UZ 01 03 04 06 07 09 14 27 31 33 35 38 42 51 56 64 65 56F 56F1 65A 65Am 65Am 65F 65Fd 65N 65Nc 65Nc4

Material examined: 1 ex from Bahçesaray, Upper Mukus Valley 1840m (65Am4), on 23 10 2016, M. Kemal & A.Kocak leg. (Cesa). Widely distributed in Van Province. Especially gregarious in late autumn.

13.Lasiocoris anomalus (Kolenati, 1845) (Figs. 11a-b)

Synonyms: anomalus Kolenati,1845; villosus Mulsant & Rey,1852; aeneiceps Baerensprung,1859; stabianus A.Costa,1862; flori Douglas & Scott,1868 Range (in codes): MA Azr DZ Tlm Tni PT ES AD FR IT Si SS HV B-H MK GR Cr BG UA Cm CY TR Arr Cc GG Tbl AM AZ Nv IL Pa JO SY IR TM RU Kr 01 04 06 16 23 27 30 42 44 51 60 65 76 30C 42B 51D 51Dd 65A 65Ai 65N 65Np4 65Nm

14.Lethaeus cribratissimus (Stal, 1858) (Fig. 12)

Synonyms: cribratissimus Stal,1858; niger Fieber,1861; dalmatinus Horvath,1881; syriacus Horvath,1883 Range (in codes): CZ HV IL Pa CY Rd Cr GR AL MK YU BG B-H TR LB Bei JO SY 01 07 17 23 27 31 33 34 35 41 42 48 58 65 31M 65A 65Am 65Am1

New to the fauna of Van Province!

15.Lygaeus equestris (Linnaeus, 1758) (Fig. 13)

Synonyms: equestris Linnaeus,1758; speciosus Poda,1761; punctumalbum Pollich,1781; lactans Horvath,1899; sicilianus Wagner,1954

Kemal & Koçak, 2013: 8, fig.6.

Range (in codes): Al at be b-h bg hv cz dk de ee fi fr gb gr hu it lt mk md nl? Pl pt ro ru sk ss es SE CH UA YU DZ MA TN LY EG IQ TR AZ Cc AM GG AF PK KG CN CY IR IL Pa JO KK MN Sb Us SY TJ TM UZ 09 13 38

Material examined: 3 ex from Bahçesaray, Upper Mukus Valley (65Am1, 65Am3) 1760-1850m, on 10 5 2016; 1 ex from Vasting 1650m (65An), on 9 5 2016; 1 ex from Altındere 1970m (65At1), on 26 6 2016, M. Kemal & A.Koçak leg. (Cesa)

16.Nysius sp.

This genus is one of the most difficult group to identify, and poorly known in Turkey. Several species of the genus has been reported by various authors from Turkey so far (cymoides, ericae, graminicola, helveticus, immunis, senecionis). A single specimen, captured in the district couldnot be identified at this moment; therefore its identity remains as a species in the genus Nusius Dallas (Orsillinae of Lygaeidae or Orsillidae) temporarily. Wagner revised the Palearctic species of the Nysius-complex in detail (Wagner, 1958; Péricart, 1998a).

17. Rhyparochromus pini (Linnaeus, 1758)

Synonyms: pini Linnaeus,1758; collinus Scopoli,1763; circuluspunctatus Goeze,1778; crucifer Geoffroy,1785; circulus Gmelin,1790 Range (in codes): Cn MA Cc AZ AM AF GG TR IR CN Ui Ti MN RU Vv Ya Sb KG TJ TM UZ 06 16 33 36 37 46 65 65A 65Ac 65Ac3

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18. Rhyparochromus vulgaris (Schilling, 1829)

Synonyms: vulgaris Schilling,1829; homoeopus Horvath,1899 Range (in codes): AL AT BE B-H BG BY HV CZ FR DE GR HU IT MK MD NL PL RO RU SK SS ES UA YU Cc AM Eri AZ GG IR TM TR CY IL Pa 01 06 09 10 16 17 22 31 33 34 $35\ 43\ 45\ 48\ 64\ 65\ 74\ 01H\ 31K\ 31M\ 65A\ 65Ac3\ 65Am\ 65Am\ 65Nm\ 65Np\ 65Nm\ 74B$

Material examined: 1 ex from Bahçesaray, Liman, Spindaran 2320m (65Ac3), 10 8 2016, M. Kemal & A.Kocak leg. (Cesa)

19.Spilostethus pandurus (Scopoli,1763)

Synonyms: pandurus Scopoli,1763; militaris Fabricius,1775; civilis Fabricius,1787; surinamensis Wolff,1802; elegans Wolff,1802; lagenifer Dufour,1833; asiaticus Kolenati,1845; tetricus Horvath,1909

Kemal & Kocak, 2008: 3, fig.3, Kemal & Kocak, 2014b: 25, fig.28, Kemal & Kocak, 2016e: 20, fig.43.

Range (in codes): Md Cn AL AT B-H BG HV CZ SK FR HU IT MK MD PT RO RU ES UA YU DZ LY EG MA TN SS Cc TR IR CY IQ TM GR AZ AF Cc AM GG IL Pa JO SA Sn SY CN Ti IQ UZ YE IN PH AU CV TD MR 01 03 06 07 09 11 15 16 17 18 20 22 23 26 27 31 33 34 35 38 39 42 43 44 45 48 51 46 64 65 67 73 44L 44Lc 46G 46Gd 65A 65Am 65Am 65D 65Dd 65Dda 65Dg 65F 65Fp 65Fz 65K 65N 65Nc 65Np 65Np1 65Np2 65Nr2 65Nr4 65Nm 65Ku 73D 73Df 73Dfb 73H Material examined: 1 ex from Bahçesaray, Upper Mukus Valley 1840m (65Am4) 24 5 2016, M. Kemal & A.Kocak leg. (Cesa)

20.Spilostethus saxatilis (Scopoli,1763) (Fig. 14)

Synonyms: saxatilis Scopoli,1763; tessellatus Goeze,1778; lusitanicus Herrich-Schäffer,1850; montivagus Horvath,1899

Kemal & Koçak, 2010b: 27, fig.25. Kemal & Koçak, 2013: 7, figs.4-5. Kemal & Koçak, 2014b: 25, fig.29.

Range (in codes): Cn AL AT BE B-H BG HV CZ SK FR DE GR HU IT MK PL RO PT ES SE UA YU CY TR DZ Agi Cn MA LY TN Gab EG AZ AM Cc GG RU Da St AF IQ Kku Ssa Mos Shq IR IL Pa JO SY TM UZ Ch UA Cm 12 21 27 30 31 44 46 50 56 58 65 12A 12Ab 21L 30B 30Bt1 44L 44Lc 46G 46Gd 56D 56De 56Dh 56F 58G 58Gg 65A 65Aö 65Am 65Am1 65Am2 65D 65Dc 65Dh 65Dn 65F 65Fd 65F1 65Fz 65N 65Np7 65Nm

Material examined: 2 ex from Bahçesaray, Su Fabrikası 1570m (65Aö) 26 5 2016, M. Kemal & A.Koçak leg. (Cesa)

Miridae

Schuh, 2002-2013.

21. Adelphocoris vandalicus (Rossi, 1790) (Fig. 15)

Synonyms: vandalicus Rossi,1790; fraxini Fabricius,1794; humuli Schummel,1847; taenioma A.Costa,1853; denigratus Stichel,1930; levis Stichel,1930 Range (in codes): IT DE PL FR Co MK TR 01 06 08 10 11 13 14 16 17 22 23 33 34 35 36 37 38 42 46 49 51 54 55 57 59 65 01L 13G 13Gf 42B 46A 65A 65Ai New to the fauna of Van Province!

22.Brachycoleus decolor Reuter, 1887 (Fig. 16)

Synonyms: scriptus Fabricius,1803 nec Fabr.,1794; decolor Reuter,1887; bipunctatus Stichel,1930; flavus Stichel,1930; marginatus Stichel,1930; ornatus Stichel,1957 Range (in codes): TR AT FR DE RU Sb Tv MK IT 01 04 05 06 11 16 18 21 26 31 38 42 46 50 64 65 71 76 01L 31L 65A 65Ai 71B 76B 76Bf 76Bh 76C New to the fauna of Van Province!

23.Closterotomus annulus (Brullé,1832) (Fig. 17)

Synonyms: annulus Brullé,1832; collaris Fieber,1870; fuliginosus Reuter,1877; fuscescens Reuter,1877; nebulosus E.Wagner,1974 Range (in codes): AL FR IL Pa IT HU GR HV SY Rd TR 01 07 31 33 46 65 79 80 31A 31F 31H 31L 31M 31O 65A 65Ai

24. Deraeocoris rutilus (Herrich-Schäffer, 1838) (Fig. 18)

Synonyms: rutilus Herrich-Schäffer,1838; bellicosus Horvath,1885; quadrimaculatus Jakovlev,1889; fasciatus Reuter,1904

Kemal & Koçak, 2014b: 12, fig. 3. Kemal & Koçak, 2016e: 20, fig.45.

Range (in codes): Cc UA CY TR IL Pa MK 01 06 07 14 18 19 21 23 26 27 31 33 37 38 40 42 46 47 50 56 65 70 78 79 80 01D 01G 01H 01K 06G 06R 06T 27F 31G 31H 31K 31L 46A 46Ab 46Ad 46Ae 56D 65A 65Ai 65F 65Fd 65Fz

25. Grypocoris fieberi Douglas & Scott, 1868 (Fig. 19)

Synonyms: fieberi Douglas & Scott,1868; blandus Puton,1881 Range (in codes): IL Pa SY JO TR AZ Cc IR 06 13 21 23 24 27 30 31 46 47 56 65 78 80 31M 46A 46Ab 46Ab 46Ab 46Ab 65A 65Ai 65D 65Dda

26. Horistus orientalis (Gmelin, 1790)

Synonyms: orientalis Gmelin,1790; leucogrammus Gmelin,1790; marginellus Schrank,1801; lineolatus Brullé,1832; albostriatus Burmeister,1835; rubrostriatus Herrich-Schäffer,1836; consanguineus A.Costa,1862 Range (in codes): IN DE PL AT MT GR ES IT TR IL Pa 01 06 16 21 23 27 38 42 47 65 210 65A 65An New to the fauna of Van Province!

27.Liocoris tripustulatus (Fabricius, 1781)

Synonyms: bifasciatus Müller,1764; tripustulatus Fabricius,1781; pictus Hahn,1833; lhesgica Kolenati,1845; autumnalis Reuter,1875; pallens Noualhier,1895; nepeticolus Reuter,1896; signatus Poppius,1912; bimaculatus Stichel,1930; mutatus Stichel,1930; Range (in codes): Az Md Cn TR TM UZ CN Ui Bc 01 06 07 14 19 21 27 31 33 38 42 46 47 50 51 65 66 68 78 80 31A 31F 31M 46A 46Ab 65A 65Ai

New to the fauna of Van Province!

28.Lygus pratensis (Linnaeus, 1758)

Synonyms: pratensis Linnaeus,1758; umbellatarum Scopoli,1763; rubecula Goeze,1778; viridulus Panzer,1804; alpinus Kolenati,1845 Range (in codes):IT DE AT GB RU Sb DK FR Co MK SE BE BG CY CZ FI GG Cc GR HU TR IR Ak Koa IR IN CN 01 06 07 18 19 21 26 27 31 37 38 39 40 42 46 47 50 51 57 65 66 67 70 74 78 80 01L 31M 46A 65A 65Am 65Am 65F65Fz

29.Orthops sp.

This genus is represented in Turkey by four species. The collected specimen resembles to *basalis* Costa. As we need more material for a precise identification, the specimen remains unidentified for the time being. A paper, recently published by Hosseini (2014) may be useful for identification of *Orthops* species in this region.

30.Stenodema calcaratum (Fallén, 1807) (Fig. 20)

Synonyms: calcaratum Fallén,1807; dentata Hahn,1831; grisescens Fieber,1861; virescens Fieber,1861; polychloros Westhoff,1881; rubricata Rey,1894; pallescens Reuter,1904; fuscescens Wagner,1949; aestiva Stichel,1957; fuscata Stichel,1957; verna Stichel,1957; ternaria Stichel,1958 Range (in codes): SE DE PL GR GB IL Pa IT ES RU Sb Krl Sh Co FR TR MK DK KP KR 21 33 65 65A 65Ac3

Material examined: 1ex Bahçesaray, Liman, Spindaran 2320m 10 8 2016, M. Kemal & A.Koçak leg. (Cesa)

New to the fauna of Van Province!

Nabidae

Kerzhner, 1996.

31. Nabis (Tropiconabis) capsiformis Germar, 1838 (Fig. 21)

Synonyms: #angustus Spinola,1837; capsiformis Germar,1838; angusta Brullé,1839; longipennis A.Costa,1847; caffra Stal,1855; siticus Walker,1870; elongatus Meyer-Dür,1870; innotatus White,1877; brullei Lethierry & Severin,1896 Cornelis & Coscaron, 2013.

Range (in codes): IN Bba ZA Nta Kzu Hw Cn AL B-H BG HV CZ FR GR HU PL SK YU DZ EG LY MA TN TR IR Gls Fa Ke Kh Kd Lo Kz Ss Th Ab Ak Hz Ar CN Ui AF CY Cc GG IL Pa TJ TM UZ YE JP AU AR BR CL GY MX UY PE $56\ 65\ 56$ Fi 65A 65Ap

The authors observed this species from Bahçesaray (Van Province), and also Tangoli (Siirt Province, Sirvan). New to the fauna of Van and Siirt Provinces!

Pentatomidae

Rider, 2006.

32.Ancyrosoma leucogrammes (Gmelin, 1790) (Fig. 22)

Synonyms: albolineatus Fabricius,1781 nec Gz.,1778; leucogrammes Gmelin,1790; nervosus Cyrillus,1791 nec Sc.,1763; affine Westwood,1837; tuberculatum Bergevin,1908

Kemal & Koçak, 2014b: 15, fig. 8.

Range (in codes): AL AT B-H HV FR GR BG IT MT MK PT SK SS ES CH Az TR IL Pa IR Cc GG AM AZ IR IQ IL JO CY EG SY TJ TM UZ KK MN 01 02 06 07 08 09 10 11 15 16 17 19 21 22 27 31 32 33 34 35 38 39 42 45 46 48 50 54 56 59 63 62 65 72 09M 31K 31Ka4 56F 56Fj 65A 65Am 65Am 65Am 65At 65At 65Dh 65F 65Fp 65Fz

33. Carpocoris (s.str.) coreanus Distant, 1899 (Fig. 23)

Synonyms: coreanus Distant, 1899; iranus Tamanini, 1958

Kemal & Koçak, 2014a: 136, fig.168. Kemal & Koçak, 2014b: 15-16, 29, figs. 9-11, 37.

Range (in codes): IR Ak Kfr Kh Msh Gh Ar Se Zj Th Kdv Elb GR TR AF AM AZ GG Cc IQ IL Pa EG Sn JO KG MN CN Gn Ui KK RU Sb TJ TM UZ PK 02 13 21 23 27 30 31 46 47 56 63 65 73 13A 13Ab 13Ax 13G 13Gd 13Gü 13Gw 23C 23I 30D 30Dx 56F 65A 65Ai 65Am 65Am 65Am 65Ab 65Ab 65Ab 65Bn 65Bn 65Bn 65Bn 65Fb 65Fb 65Fb 65Fz 65Fg 65G 65Gb 65Gu 65Gz 65K 65Kz 65Kz 65Kz 65Np 65Np 65Np 65Np 65Np 65Np 65Np 73A 73Ad

Material examined: 1 ex from Bahçesaray, Upper Mukus Valley 1840m (65Am4), on 24 5 2016; 1 ex Paşaköy (65Ai), on 25 5 2016; 1 ex from İhtiyartaşı Pass 2270m (65Ap), on 3 6 2016; 1 ex from Bağcılar NE 2040m (65As), on 4 6 2016; 1 ex from Altındere 1960m (65At), on 11 6 2016, M. Kemal & A.Koçak leg. (Cesa)

34. Carpocoris (s.str.) fuscispinus (Boheman, 1851)

Synonyms: fuscispinus Boheman,1851; hahni Flor,1856; rugicollis Seabra,1925; subrufus Seabra,1925; flavescens Seabra,1925; infuscatus Seabra,1925

Kemal & Koçak, 2014a: 136, fig.169. Kemal & Koçak, 2014b: 17-18, figs.12-14.

Range (in codes): AL AT BE B-H BG BY HV CZ DE FI FR DK GR HU IT Si Sa LT LV MK MD NL PL PT RO RU SK SS ES CH UA YU TR AZ AM GG CN AF IL Pa Cc IQ IR Ak Kfr Mz Zj Ma Th Es Kh Lo Ar Gh SY TJ KK KG KP KR MN IN PK 01 02 04 06 07 09 10 11 13 15 16 17 18 19 21 22 25 26 27 30 31 32 33 35 36 37 38 39 40 42 43 45 46 48 50 54 56 59 60 63 65 66 70 71 73 13A 13Ab 13Ax 56F 65A 65Am 65Am 65Am 65Am 65Bn 65Bn 65Bn 65C 65Cb 65G 65Gu 65E 65Eb 65F 65F1 65Fd 65Fp 65Fz 65K 65Kd 65Kg 65Ky 65Ky 65Nc4 65Nc4 65Nc 65Np5 65Nr3 65Nr4 65Nm 73A 73Ak

Material examined: 1 ex from Bahçesaray, Paşaköy 1600m (65Ai), on 22 10 2016; 2 ex from Upper Mukus Valley 1840m (65Am4), on 01 10 2016 and 23 10 2016, M. Kemal & A.Koçak leg. (Cesa)

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35.Carpocoris (s.str.) pudicus (Poda,1761) (Fig. 24)

Synonyms: pudicus Poda,1761; cinctus Schrank,1776; carnus Gmelin,1790; wilkinsonii Westwood,1837; pallida Dallas.1851

Kemal & Koçak, 2013: 9, fig.8. Kemal & Koçak, 2014a: 137, fig.170.

Range (in codes): IT Si UA TR AF IL Pa IR Ak Kfr Mz Gor Th Se Kh Gh Ar Zj Cc EG SY 01 02 05 06 07 08 12 13 16 19 21 22 23 27 30 31 34 37 38 41 42 44 46 47 49 50 51 52 55 56 57 58 60 62 65 66 67 70 73 76 78 06K 06Kb 12A 12Ai 12E 12Eb 13A 13Ab 13Ax 13G 13Gs 13Gw 23C 30B 30Br 38H 38Hc 44A 44Ab 44L 44Lc 56F 56Fp 58G 58Gg 58Gj 58Gk 65A 65At 65D 65Dn 65F 65Fe 65Fz 65N 65Np 65Nm 73A 73Ad 76D 76Dğ

Material examined: 3 ex from Bahçesaray, Altındere 1960m (65At), on 11 6 2016; Altındere Mağara 1910m (65At2), on 26 6 2016, M. Kemal & A.Koçak leg. (Cesa)

36.Codophila (s.str.) varia (Fabricius,1787) (Fig. 25)

Material examined: 2 ex from Bahçesaray, Paşaköy 1600m (65Ai), on 22 10 2016; 4 ex from Upper Mukus Valley (65Am1, 65Am4) 1800-1840m, on 24 5 2016, 01 10 2016, 23 10 2016, M. Kemal & A.Koçak leg. (Cesa)

37. Dolycoris baccarum (Linnaeus, 1758) (Fig. 26)

Synonyms: baccarum Linnaeus,1758; verbasci De Geer,1773; subater Harris,1780; albidus Gmelin,1790; depressa Westwood,1837; confusa Westwood,1837; inconcisa Walker,1867

Kemal & Koçak, 2014b: 19, fig.17.

Range (in codes): PT ES FR GB BE NL DE DK NO SE FI EE BY UA PL CZ SK HU CH AT SS IT Sa Si AL MK GR BG CY MD RO TR IL Pa SY IQ Cc IN PK CN Ui Ku Kun Um IR Zj Th Elb Ak Kfr Fa Es Gh Ar Kh 01 02 03 04 05 06 07 08 09 10 11 13 14 15 16 17 18 19 20 21 22 24 25 26 27 30 31 32 33 35 36 37 38 39 41 42 45 46 47 48 49 50 51 52 54 55 56 59 60 63 64 65 67 73 76 13A 13Af 13Ax 13F 30B 30Br 56F 56F1 65A 65Am 65Am4 65Aş 65B 65Bn 65Bn 65Bn 65C 65Cb 65D 65Df 65Fz 65F 65F9 65Fd 65Fq 65G 65Ga 65Gb 65Gu 65Gv 65Gz 65K 65N 65Nc 65Ku 73D 73Df 73E 76B 76Bf 76Bh 76C

38.Dyroderes umbraculatus (Fabricius, 1775) (Fig. 27)

Synonyms: umbraculatus Fabricius,1775; marginatus Fabricius,1798 nec Linn.,1758; aparines Dufour,1833 Range (in codes): PT ES FR CH AT CZ SK HU UA IT Sa Si RO BG GR CY TR IL Pa JO SY IQ 01 02 03 05 06 07 10 11 14 15 16 19 20 22 27 31 34 35 39 42 43 45 46 48 50 51 52 57 59 61 65 67 68 31K 31Ka 65A 65Aö

Material examined: 1 ex from Bahçesaray, Su Fabrikası 1570m (65Aö), on 26 5 2016, M. Kemal & A.Kocak leg. (Cesa)

39. Eurydema (Rubrodorsalium) ventralis Kolenati, 1846

Synonyms: ventralis Kolenati,1846; hoffmanseggi Gorski,1852; ornata Fieber,1861 nec Linn.,1758; ventralis Tamanini,1947 nec Kol.,1846

Kemal & Koçak, 2014b: 21, figs.20-21. Kemal & Koçak, 2016e: 20, fig.46.

Range (in codes): TR IR Ak Kfr Kh 01 03 04 05 06 07 08 10 11 14 15 16 17 19 20 22 25 30 34 35 36 37 39 40 41 42 43 45 48 50 51 54 57 59 60 64 65 71 36D 36Db 65A 65Am 65Am 65Dg 65F 65Fd 65Fp 65Fz 65N 65Nc

40.Eurydema (s.str.) ornatum (Linnaeus,1758) (Fig. 28)

Synonyms: ornatum Linnaeus,1758; festivus Linnaeus,1767; pictum Herrich-Schäffer,1833; decoratum Herrich-Schäffer,1833; pustulata Fieber,1837; conjuncta Kolenati,1846; fallax Scholtz,1847; falleni Gorski,1852; umbralis Gistel,1857

Kemal & Koçak, 2014b: 20, fig.19. Kemal & Koçak, 2016e: 20, fig.48.

Range (in codes): TR CY IR Kh ET IN PK CN Ui Bc IR Ak Kfr Ar Ss Es Gh Gor Ke Kh Km Kz Lo Mz Th Zj 01 02 03 04 05 06 07 08 09 10 11 13 14 15 16 17 18 19 21 22 23 24 25 26 27 30 31 32 33 34 35 37 38 39 42 44 45 46 47 48 50 51 52 54 55 56 57 59 60 61 63 64 65 66 67 71 73 76 77 02A 02B 02F 13G 13Gd 21K 21L 30A 30Ad 31K 31Ka 34R 34Rb 44L 44Lc 56F 63C 63G 63H 65A 65Ai 65Am 65Am 65Am 65At 65At 265D 65D 65F 65F 65F 65F 37 3A 73Ad 73Ad2 76B 76Bf 76Bh

41. Graphosoma (s.str.) lineatum (Linnaeus, 1758)

Synonyms: lineatum Linnaeus,1758; italicus Müller,1766; nigrolineatus Fabricius,1781; shangini Gebler,1817; reductum Horvath,1901; ochraceum Royer,1925; obscurum Stepanek,1926; soosi Halaszfy,1953; nigriscutellatum Halaszfy,1955; flavolineatum Halaszfy,1955

Kemal & Koçak, 2016e: 21, fig.50.

Range (in codes): DZ EG TN Co IT UZ TR SY RU Sb IR Ak o1 o4 o6 o7 o8 o9 10 11 13 16 17 18 19 20 22 25 26 27 31 32 33 34 35 36 37 38 39 43 45 46 48 54 56 60 65 73 76 77 o6R 13G 13Gd 13Gö 13Gŏ 13Gŏ 13Gw 46B 46Bb 56F 60G 65A 65Aö 65D 65F 65Fd 73D 73Df 76B 76Bf 76Bh

Material examined: 3 ex from Bahçesaray, Su fabrikası 1570m (65Aö) 26 5 2016, M. Kemal & A.Koçak leg. (Cesa)

42.Graphosoma (s.str.) melanoxanthum Horvath,1903 (Fig. 29)

Synonym: melanoxanthum Horvath,1903

Kemal & Koçak, 2014a: 139, fig.174. Kemal & Koçak, 2014b: 22, fig.22. Kemal & Koçak, 2016e: 21, fig. 51.

Range (in codes): Cc RU IR Elb Th Kdv AZ AM GG TR 13 21 23 25 34 65 76 13G 13Gö 13Gö 13Gö 13Gw 65A 65Ai 65As 65D 65Dç 65F 65Fd 65F1 65Fp 65Fz 65N 65Nr2 65Nr4 65Nm 76C

Material examined: 1 ex from Bahçesaray, Bağcılar NE 2040m (65As), 4 6 2016, M. Kemal & A.Koçak leg. (Cesa)

43. Graphosoma (s.str.) semipunctatum (Fabricius, 1775) (Fig. 30)

Synonyms semipunctatum Fabricius,1775; interruptum White,1839; wilsoni White,1839; persica Ferr.,1874; creticum Horvath,1909

Kemal & Koçak, 2014a: 139, fig.175. Kemal & Koçak, 2016e: 21, fig. 52.

Range (in codes): Cn TR Cr IR AF IL Pa Cc CY Ui TM 01 02 06 08 09 13 17 19 21 22 23 25 27 31 34 35 36 38 39 44 45 46 47 48 50 54 56 59 63 65 80 06R 13G 13Gd 31M 35L 44L 44Lc 56F 56Fc 65A 65Am 65Am4 65Aö 65Aç 65F 65Fd 65Fz 65G 65Ga 65N 65Np 65Nm

Material examined: 2 ex from Bahçesaray, Su fabrikası 1570m (65Aö) 26 5 2016, M. Kemal & A.Koçak leg. (Cesa)

44.Palomena prasina (Linnaeus, 1761) (Fig. 31)

Synonyms: prasina Linnaeus,1761; roseus O.F.Müller,1776; viridis Harris,1780; dissimilis Fabricius,1781; discolor Wolff,1811; rhododactyla Horvath,1883 Range (in codes): MA DZ BG Cc AZ GG AM TR SY IR Gh Kh CN Ui TJ UZ 01 06 07 09 11 13 14 15 16 17 18 19 22 25 27 31 35 37 39 41 42 43 45 46 54 56 57 65 67 71 13F 56F 56F1 65A 65Ai

Material examined: 1 ex from Bahçesaray, Paşaköy 1560m (65Ai) 9 5 2016, M. Kemal & A.Koçak leg. (Cesa)

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45.Stagonomus (s.str.) amoenus (Brullé,1832)

Synonyms: bipunctatus Fabricius,1781 nec Linn.,1758; italicus Gmelin,1790 nec Müll.,1766; amoenus Brullé,1832; #transparens Fuente,1974

Kemal & Koçak, 2016e: 21, fig. 53.

Material examined: 1 ex from Bahçesaray, Altındere 1910m (65At2) 26 6 2016, M. Kemal & A.Koçak leg. (Cesa)

46.Staria lunata (Hahn, 1835)

Synonyms: *lunata* Hahn,1835; *lobulatus* Rambur,1839; *maroccana* Lindberg,1932; *levantinae* Fuente,1972 Range (in codes): DZ MA TN AZ Cc GG IQ IL Pa JO LB SY AL AT B-H BG HV CZ FR DE GR HU IT MK MD PL PT RO RU SK SS CH UA YU TR IR Gh Ak CY 01 02 06 07 09 10 11 14 16 17 18 21 22 23 27 31 33 35 44 45 46 48 63 65 67 74 31K 31Ka 31M 44L 44Lc 65A 65Ai 65F 65Fb

Pyrrhocoridae

47. Pyrrhocoris apterus (Linnaeus, 1758) (Fig. 32)

Synonyms: apterus Linnaeus,1758; clamariensis Fallén,1829

Kemal & Koçak, 2010b: 28, fig.27.

Range (in codes): AF AL DZ AT BE BG Cc TR FR Co CY CZ DK GB DE GR HU IR Ak IQ IT Sa IL Pa Ch MA MN NL PL PT RO RU Sb YU ES SE CH SY TN TJ US 01 04 06 09 11 16 19 22 23 24 25 26 31 34 35 38 39 42 45 46 49 50 51 55 56 65 72 73 76 31M 56D 56Dc 65A 65Ac 65Ac 65Dc 65Dh 65Dh 65Dn 65N 65Ng

Material examined: 1ex Bahçesaray, Liman, Spindaran 2320m 10 8 2016, M. Kemal & A.Koçak leg. (Cesa)

Reduviidae

48.Nagusta goedelii (Kolenati,1856) (Fig. 33)

Synonyms: goedelii Kolenati,1856; rugulosa Stal,1859; cornutus Jakovlev,1876 Range (in codes): IL Pa TR Arr AZ Cc Kir AM GG IR TM IQ CY AT B-H BG HV HU MK RO RU UA YU 05 08 16 24 25 34 36 44 60 65 69 76 65A 65Ai 76C New to the fauna of Van Province!

Material examined: 1 ex from Bahçesaray, Paşaköy 1600m (65Ai), on 22 10 2016; 1 ex from Upper Mukus Valley 1760m (65Am1), on 10 5 2016, M. Kemal & A.Koçak leg. (Cesa)

49. Reduvius personatus (Linnaeus, 1758)

Synonyms: personatus Linnaeus,1758; ater Poda,1761 Range (in codes): CA US Ny DZ Cc TR AU 01 05 06 07 08 16 35 43 54 60 65 65A 65Ac 65Ac3 65F 65Fp 65Fz

Material examined: 1 ex from Bahçesaray, Liman Spindaran 2320m (65Ac3), on 10 8 2016, M.Kemal & A.Koçak leg. (Cesa)

50. Rhynocoris iracundus (Poda, 1761)

Synonyms: iracundus Poda,1761; sanguineus Schrank,1776; cruentus Fabricius,1787; monspeliensis Gmelin,1790; caucasicus Kolenati,1857; interruptus Kolenati,1857; pictus Kolenati,1857; nigripes Kolenati,1857; rubricoxa Bergroth,1890; jucundus Horvath,1891; Range (in codes): AL BE B-H BG BY HV CZ DE FR HU IT MK MD PL RO SK SS ES CH UA YU AT TR IL Pa Cc AZ Ord Nv AM IN DE RU IR Elb Shh AF CN GG IQ LB SY TJ TM UZ Ch o5 12 13 24 29 48 53 60 65 13A 13Ah 13Ax 65A 65Au

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51. Rhynocoris punctiventris Herrich-Schäffer, 1846 (Fig. 34)

Synonyms: punctiventris Herrich-Schäffer,1846; variegatus Fieber,1861; dimidiatus Dispons,1964; #punciventris Yildırım et al. 2010 Range (in codes): TR AL BG IL Pa Js MK UA Cm AZ AM CY IR IO LB SY RU YU 01 02 06 07 08 09 10 12 16 17 24 25 28 29 31 33 34 35 36 42 44 45 48 50 51 53 60 63 65 69 73 75 76 80 31M 65A 65Au 65F 65Fn 65Fz 73A 73Ad 76C 76D

Rhopalidae

52. Corizus hyoscyami (Linnaeus, 1758) (Fig. 35)

Svnonvms: hyoscyami Linnaeus,1758; flavicans Puton,1881; usticensis Riggio,1885; flavescens Rey,1888; collinus Distant,1909; monticola Horvath,1917; atropyga Blöte,1934; #hyosciami Kıyak et al.,2004

Kemal & Koçak, 2010b: 28, fig.26. Kemal & Koçak, 2014a: 142, fig.180. Kemal & Koçak, 2014b: 26, fig.30.

Range (in codes): AL AT BE B-H BG BY HV CZ SK DK DE GB FI FR GR HU IE IT LT LV MT MK MD NL NO PL PT RO RU SS ES SE CH UA YU EG LY AZ AF AM CN UI BC Nra CY GG IR IQ IL JO Pa KK LB MN RU KP KR Sn SY TJ TM UZ MA DZ TN Cn TR IR Ak Elb Th Se Gh 13 30 31 38 44 46 50 56 65 73 76 13A 13Aç 13Ag 13Ah 13Ax 13B 13Bg 13Gw 13F 30B 30Br 31K 31Ka 38H 38Hc 44L 44Lc 46B 46Bb 56F 56Fa 65A 65Ai 65As 65B 65Bn 65Bn 65Dda 65F 65Fd 65Fp 65Fw 65Fz 65N 65Nc 65Np1 65Nr6 65Nm 73A 73Ad 73Ak 73D 73Df 76A 76Ac 76B 76Bf 76Bh

53.Liorhyssus hyalinus (Fabricius, 1794) (Fig. 36)

Synonyms: hyalinus Fabricius,1794; gracilis Herrich-Schäffer,1835; capensis Germar,1838; truncatus Rambur,1839; rubescens Kolenati,1845; maculiventris Spinola,1852; ruber Dallas,1852; bengalensis Dallas,1852; sanguineus A.Costa,1853; dilatipennis Signoret,1859.

Kemal & Kocak, 2014b: 27, fig.32.

Range (in codes): ALAT BE B-H BG BY HV CZ FR GB DE GR HU IE IT MT MK MD NL PT RO RU SK SS ES UA YU DZ AZ CN EG LY MA MR TN AZ AF AM Cc TR CN UI CY GG IR IQ IL Pa JO KK MN OM SA SY TJ TM UZ YE ZA IN Ben Up Bba 50 65 65A 65Am 65Am4 65F 65Fz

54.Maccevethus sp.

Both *Maccevethus* species, i.e., errans and corsicus have been reported from Turkey, so far. It is almost impossible to identify them by using their external characters. The genitalic structures will be examined separately. Wagner (1953) illustrated and distinguished Maccevethus taxa as four species. However, the genus is currently represented by two species only (Coreoidea SF Team, 2017).

Scutelleridae

Yıldırım, et al., 2014.

55. Eurygaster sp.

This genus is represented in Turkey by seven species. Externally variable species, therefore very difficult to decide about the identity. As we need more material for a precise identification, the specimens remains unidentified for the time being.

56.Odontotarsus purpureolineatus (Rossi, 1790)

Synonyms: purpureolineatus Rossi,1790; lutescens Fieber,1861; rugicollis Jakovlev,1884; insignis Jakovlev,1908; #confluens Hoberlandt,1944

Göllner-Scheiding, U., 1990; Kemal & Koçak, 2013: 8, fig. 7. Kemal & Koçak, 2014a: 144, fig. 183.

Range (in codes): DE CZ TR IL Pa IR Cc Th Elb Kh Ar Gh SK SY TM UA Cm o1 o2 o6 o7 o8 11 16 17 21 22 25 27 32 33 36 38 46 49 53 56 58 63 65 69 73 76 56F 58G 58Gj 65A 65Ai 65Au 65F 65Fe 65Fz 65N 65Np1 65Nm

Material examined: 4 ex from Bahçesaray, Paşaköy 1600m (65Ai), on 25 6 2016; 1 ex from Upper Mukus Valley 1840m (65Am4), on 1 10 2016, M. Kemal & A.Koçak leg. (Cesa)

List of the Homoptera species

Cercopidae

57. Cercopis intermedia Kirschbaum, 1868 (Fig. 37)

Synonyms: intermedia Kirschbaum,1868; obliterata Kirschbaum,1868; nigra Royer,1906; simulans Peneau,1912; turkestanica Lindberg,1923 Range (in codes): Cc DZ BG FR DE? GR IR IL Pa IT LB MA PT ES SW SY TR AM GG RU Da TM UA UZ 02 05 06 08 10 13 17 21 23 26 27 28 30 31 32 35 38 39 42 43 44 46 47 51 53 55 56 61 63 64 65 71 76 06R 13A 13Ab 13Ac 13Af 13Ah 13Ax 13F 13G 21N 21Nb 21Nc 21P 30D 30Df 31K 31Ka 44L 44Lc 56D 56F 65A 65Ag 65Ap 65Am 65Am 65D 65Dda 65F 65Fd 65N 65Np 65Np 65Np 65Nm 76B 76Bj

58.Philaenus (s.str.) signatus Melichar,1896

Synonym: signatus Melichar,1896 Range (in codes): AF AL CY GR IQ IT MA ES TR YU 01 07 35 48 65 80 65A 65Ai New to the fauna of Van Province!

59. Philaenus (s.str.) spumarius (Linnaeus, 1758) (Fig. 38)

Synonyms: spumarius Linnaeus,1758; leucophthalma Linnaeus,1758; lateralis Linnaeus,1758; leucocephala Linnaeus,1758 Range (in codes): AF AL DZ AT AZ BE BG CN CY CS DK FI FR DE GB GR Cr HU IQ IE IT JP MN MA NL NO PL PT RO ES SE SW SY? TN TR AM AZ Cc EE GG KG KK MD RU UA UZ YU JP US Als Cf Hw Mai Ny Oh Ut Ws CA BCo On Qb 01 04 05 06 07 08 09 10 11 13 14 16 17 23 24 25 26 28 29 30 34 35 36 39 41 43 44 45 47 48 52 53 55 56 57 59 60 61 65 76 06R 13G 65A 65Ai 65B 65C 65D 65G 65L 65N 65Np 65Nm

Dictyopharidae

60.Dictyophara (Euthremma) multireticulata Mulsant & Rey,1855

Synonyms: multireticulata Mulsant & Rey,1855; heydenii Kirschbaum,1868; curvata Matsumura,1910; nemourensis Matsumura,1910; oertzeni Matsumura,1910 Range (in codes): AL AT BG CZ FR GR TR HU IL IT PT RO ES AM AZ MD UA YU 06 07 20 65 06R 65A 65Am 65Am 65Fp 65Fp 65Fz

Issidae

61.Agalmatium bilobum (Fieber, 1877) (Fig. 39)

Synonym: bilobum Fieber, 1877 Range (in codes): FR GR IL IT Sa ES SY TN TR UA Cm 01 02 03 06 09 10 11 15 16 17 19 20 26 27 29 31 35 39 40 43 44 45 48 55 58 59 60 64 65 66 65A 65Am 65Am4

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Ricaniidae

62.Ricania hedenborgi Stal,1865 (Figs. 40, 41)

Synonym: hedenborgi Stal,1865 Range (in codes): GR Rd Cr TR AM Cc o7 21 23 35 47 56 65 73 21K 47G 56F 56Fb 65A 65Am 65Am 65Am 65D 65D 73A 73Ad

Selected References

Only accessible publications for us are evaluated here.

CoreoideaSFTeam, 2017, Coreoidea Species File Online. Version 5.0/5.0. http://coreoidea.SpeciesFile.org [Access on 25 Oct., 2017]

10 November 2017

- **Cornelis,M. & A.C.Coscaron**, 2013, The Nabidae (Insecta, Hemiptera, Heteroptera) of Argentina. *Zookeys* 333: 1-30, figs.
- **Dursun,A.**, **Kaçar,G. & M.R.Ulusoy**, 2010, The Alydidae (Hemiptera, Heteroptera, Coreoidea) of Turkey. A key to the genera, new records and a species checklist. *Ent. News* 121 (5): 487-497, figs.
- Göllner-Scheiding, U., 1990, Revision der Gattung Odontotarsus Laporte de Castelnau, 1832 (Heteroptera, Scutelleridae). Mitt. zool. Mus. Berl. 66 (2): 333-370, figs.
- **Hosseini,R.**, 2014, A study on the genus *Orthops* Fieber (Hemiptera, Miridae, Mirinae) in Iran. *Arthropods* 3 (1): 57-69, figs.
- **Kemal,M. & A.Ö.Koçak**, 2008, Occurence of Soldier Bug (*Spilostethus pandurus*) in Van Province (Turkey) (*Hemiptera, Lygaeidae*). *Cesa News* 33: 1-3, 3 figs. 1 map.
- **Kemal,M. & A.Ö.Koçak**, 2010a, *Cicadidae* of Turkey and some ecological notes on *Tibicina serhadensis* Koçak & Kemal from Van Province (East Turkey) (*Homoptera*). *Cesa News* 55: 1-19, 1 map, 26 figs.
- **Kemal,M. & A.Ö.Koçak**, 2010b, Miscellaneous notes on the pterygot insects of Kato Mountains with illustrations their spring aspects (South East Turkey). *Cesa News* 57: 1-67, 107 figures, 1 map.
- **Kemal,M. & A.Ö.Koçak**, 2013, Results of the late summer entomological trip from Van to Ankara in 2013 (Insecta, Pterygota). *Cesa News* 93: 1-37, figs.
- **Kemal, M. & A.Ö.Koçak,** 2014a, Illustrated and annotated list on the Entomofauna of Gören Mount (Van Province, East Turkey), with ecological remarks I Period of April-June 2014. *Priamus* (Suppl.) 33: 5-206, 273 figs. 1 Table.
- **Kemal, M. & A.Ö.Koçak**, 2014b, Contributions to the Hemiptera fauna of Van Lake Basin (East Turkey) I. On the species of the Hemiptera of Artos Mountain. *Cesa News* 94: 1-30, 39 figs.
- **Kemal,M. & A.Ö. Koçak**, 2016a, First contribution to the knowledge of the Pterygota fauna of Bahçesaray (Van Province, East Turkey). *Misc. Pap.* 161: 1-16, 21 figs.
- **Kemal,M. & A.Ö. Koçak,** 2016b, On the Noctuidae fauna of Bahçesaray district (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (1): 1-74, 30 figs. 56 maps.
- **Kemal,M. & A.Ö. Koçak**, 2016c, On the Geometridae fauna of Bahçesaray district, together with some morphological and eco-faunistical notes (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (2): 76-119, 69 figs. 32 maps.
- **Kemal,M. & A.Ö.Koçak**, 2016d, Annotated list of the Pterygota fauna of Artos Mountain (Van Province, East Turkey). *Cesa News* 125: 1-36, 30 figs.
- **Kemal,M. & A.Ö.Koçak**, 2016e, On the Entomofauna of the eastern slopes of Alacabük mountain (Gevas district, Van Province, East Turkey). *Cesa News* 124: 1-31, 74 figs.
- **Kemal,M. & A.Ö. Koçak**, 2017a, On the Pyralidae of Bahçesaray district, with some eco-faunistical and taxonomical notes (Van Province, East Turkey) (Lepidoptera). *Priamus* 14 (4): 161-245, 111 figs., 62 maps.
- **Kemal,M. & A.Ö. Koçak**, 2017b, On the Microlepidoptera of Bahçesaray district (Van Province, East Turkey). *Priamus* 15 (3): 125-164, 105 figs.
- **Kemal,M. & A.Ö.Koçak**, 2017c, On the butterflies of Bahçesaray district (Van Province, East Turkey). *Priamus* 15 (4): 166-223, 112 figs. 17 maps.
- **Kemal,M. & B.Bakan**, 2011, *Oxycarenus pallens* (H.-S.) in Van Province (East Turkey) (*Hemiptera, Lygaeidae*). *Cesa News* 71: 1-5, 6 figs., 1 map.
- **Kemal, M., Bakan,B. & M.Yalçın,** 2013, *Graphosoma (Graphosomella) inexpectatum*, a new record for the fauna of Turkey (*Hemiptera, Pentatomidae, Podopinae*). *Cesa News* 85: 1-4, 7 figs.
- Kemal, M., Hakan, E., Koçak, A.Ö. & H. Tekin, 2016, *Polysarcus elbursianus* in Van Province (East Turkey) (*Orthoptera, Tettigoniidae*). *Cesa News* 127: 1-10, 25 figs., 1 tab.
- **Kemal,M., Koçak,A.Ö. & N.Ecer**, 2016, Second contribution to the knowledge of the Pterygota fauna of Bahçesaray (Van Province, East Turkey). *Cesa News* 126: 1-11, 1 fig.
- **Kerzhner,I.M.**, 1996, Superfamily Cimicoidea Latreille,1802 Family Nabidae A.Costa,1853 damsel bugs, [in] Aukema,B. & C.Rieger [ed.] *Catalogue of the Heteroptera of Palaearctic Region* 2: 84-107.
- **Koçak,A.Ö. & M. Kemal**,2010, List of the species of some pterygot orders recorded in the Province Van (East Turkey) and a description of a new species in the family Cicadidae (Insecta). *Priamus* 12 (5): 130-149.
- Koçak, A.Ö. & M. Kemal, 2012, List of two thousand species of pterygot insects in Van Province (East Turkey). *Cesa News* 81: 2-86, 37 figs.
- **Koçak, A.Ö. & M.Kemal**, 2015, Initial results of the Entomofauna of SW Asia, based upon the info-system of the Cesa (excl. Lepidoptera). *Priamus* (Suppl.) 35: 1-1185, 185 maps.

- Koçak, A.Ö. & M.Kemal, 2017, Geographical codes used in the publications of the Cesa. Cesa News 135: 1-40.
- Lindberg, H., 1923, Über die Gattung Coriomeris Westw. (Hem. Het.). Ann. Mus. Nat. Hung. 20: 73-80, figs.
- **Lis, J.A.**, 1999, Burrower bugs of the Old World (Hemiptera, Heteroptera, Cydnidae). *Genus* 10 (2): 165-249.
- **Péricart,J.,** 1998a, Hémiptères Lygaeidae Euro-Méditerranéens. Volume 1. Généralités Systématique Première Partie. [in] *Faune de France* 84A: 1-468, pls.
- **Péricart,J.,** 1998b, Hémiptères Lygaeidae Euro-Méditerranéens. Volume 2. Systématique: Seconde Partie Oxycareninae, Bledionotinae, Rhyparochrominae (1). [in] *Faune de France* 84B: 1-453, pls.
- **Péricart,J.,** 1998c, Hémiptères Lygaeidae Euro-Méditerranéens. Volume 3 Systématique Troisième Partie Rhyparochrominae (2) [in] *Faune de France* 84C: 1-487, pls.
- **Rider,D.A.**, 2006, Family Pentatomidae Leach,1815 [in] Aukema,B. & C.Rieger (ed.), *Catalogue of the Heteroptera of the Palaearctic Region* 5: 233-402. The Netherlands Entomological Society, Wageningen, The Netherlands.
- **Schuh, R.T.,** 2002-2013, On-line systematic catalog of Plant Bugs (Insecta, Heteroptera, Miridae). http://research.amnh.org/pbi/catalog/
- **Wagner, E.,** 1953, Über einige osteuropäische und innerasiatische Heteropteren. *Beitr. Ent.* 3: 388-394, 27 textfigs.
- Yazıcı, G., Avar, Y. & E. Yıldırım, 2015, Contribution to the knowledge of the Cydnidae (Hemiptera, Heteroptera, Pentatomoidea) fauna of Turkey. *Turk. J. Zool.* 39: 604-609.
- **Yıldırım, E., Yazıcı, G. & N.Karakurt,** 2014, Contribution to the knowledge of the Scutelleridae (Hemiptera, Heteroptera) fauna of Turkey. *Turk. J. Zool.* 38: 544-551, figs.



Figs. 1, 2 – Camptocoris lateralis, from Upper Mukus Valley 1840m (65Am4), on 4 7 2016 (left); a female of the same species from Lower Mukus Valley (65Au), egg-laying position over the unopened flowers of *Achillea* (*Asteraceae*), with the laid eggs, on 24 6 2016 (right), M. Kemal (Cesa)



Figs. 3, 4 – *Camptocoris tragacanthae*, from Paşaköy 1600m (65Ai) on 22 10 2016 (left); *Coreus marginatus*, from Upper Mukus Valley 1840m (65Am4) on 24 5 2016 (right), M. Kemal (Cesa)



Figs. 5, 6 – *Enoplops disciger*, both from Paşaköy 1600m (65Ai) on various dates; on 4 8 2016 (left), on 26 6 2016 (right), M. Kemal (Cesa)



Figs. 7, 8 – *Haploprocta sulcicornis*, from Paşaköy 1600m (65Ai) on 4 8 2016 (left); *Syromastus rhombeus*, from Upper Mukus Valley on 24 5 2016 (right), M. Kemal (Cesa)



Figs. 9, 10 – Canthophorus melanopterus, from Bahçesaray, Bağcılar 2040m (65As), on 4 6 2016 (left); Horvathiolus superbus, from Upper Mukus Valley 1840m (65Am4), on 23 10 2016 (right), M. Kemal (Cesa)



Figs. 11a-b, 12 – Lasiocoris anomalus, from Bahçesaray Paşaköy 1600m (65Ai), on 25 6 2016 (a pair on the left); Lethaeus cribratissimus, from Upper Mukus Valley 1780m (65Am1), on 6 7 2016 (right), M. Kemal (Cesa)



Figs. 13, 14 – *Lygaeus equestris*, from Bahçesaray Paşaköy 1600m (65Ai), on 22 10 2016 (left); *Spilostethus saxatilis* (in copula), from Su Fabrikası 1570m (65Aö), on 26 5 2016 (right), M. Kemal (Cesa)



Figs. 15, 16 – *Adelphocoris vandalicus*, from Bahçesaray, Paşaköy 1600m (65Ai), on 5 8 2016 (left); *Brachycoleus decolor*, from same place, on 10 6 2016 (right), M. Kemal (Cesa)



Figs. 17, **18** – Closterotomus annulus, from Bahçesaray, Paşaköy 1600m (65Ai), on 10 6 2016 (left); Deraeocoris rutilus, from same place, on 25 6 2016 (right), M. Kemal (Cesa)



Figs. 19, 20 – *Grypocoris fieberi*, from same place, on 5 7 2016 (left); *Stenodema calcaratum*, from Bahçesaray Liman, Spindaran 2320m (65Ac3), on 10 8 2016 (right), M. Kemal (Cesa)



Figs. 21, **22** – *Nabis capsiformis*, Bahçesaray İhtiyartaşı Pass 2270m (65Ap), on 3 6 2016 (left); *Ancyrosoma leucogrammes*, from Bahçesaray Altındere 1820m (65At3), on 5 7 2016, at 6:39 a.m. (right), M. Kemal (Cesa)



Figs. 23, **24** – *Carpocoris coreanus*, Bahçesaray İhtiyartaşı Pass 2270m (65Ap), on 3 6 2016 (left); *Carpocoris pudicus* (in copula), from Bahçesaray Altındere 1820m (65At), on 11 6 2016 (right), M. Kemal (Cesa)



Figs. 25, 26 – *Codophila varia*, Bahçesaray Paşaköy 1600m (65Ai), on 22 10 2016 (left); *Dolycoris baccarum*, from same place and date (right), M. Kemal (Cesa)



Figs. 27, **28** – Dyroderes umbraculatus, Bahçesaray Su Fabrikası 1570m (65Aö), on 26 5 2016 (left); Eurydema ornatum (in copula), Bahçesaray Paşaköy 1600m (65Ai), on 23 6 2016 (right), M. Kemal (Cesa)



Figs. 29, 30 – *Graphosoma melanoxanthum,* Bahçesaray Paşaköy 1600m (65Ai), on 5 8 2016 (left); *Graphosoma semipunctatum,* Bahçesaray Upper Mukus Valley 1840m (65Am4), on 5 7 2017 (right), M. Kemal (Cesa)



Figs. 31, **32** – *Palomena prasina* (in copula), Bahçesaray Paşaköy 1600m (65Ai), on 12 6 2016 (left); *Pyrrhocoris apterus*, Bahçesaray Liman Spindaran 2320m, on 10 8 2016 (right), M. Kemal (Cesa)



Figs. 33, 34 – Nagusta goedeli, Bahçesaray Paşaköy 1600m (65Ai), on 22 10 2016 (left); Rhynocoris punctiventris, Bahçesaray Lower Mukus Valley (65Au), on 24 6 2016 (right), M. Kemal (Cesa)



Figs. 35, 36 – *Corizus hyoscyami*, Bahçesaray Upper Mukus Valley 1840m (65Am4), on 26 5 2016 (left); *Liorhyssus hyalinus*, from same place and date (right), M. Kemal (Cesa)



Fig. 37 – *Cercopis intermedia* [in copula] face to face with a spider, Bahçesaray İhtiyartaşı Pass 2270m (65Ap), on 3 6 2016, M. Kemal (Cesa)



Figs. 38, 39 – *Philaenus spumarius*, a dark form from Paşaköy 1600m (65Ai), 25 6 2016 (left); *Agalmatium bilobum*, from Upper Mukus Valley 1840m (65Am4), on 25 10 2016 (right), M. Kemal (Cesa)



Figs. 40, 41 – *Ricania hedenborgi*, from Bahçesaray Upper Mukus Valley 1840m (65Am4), on 6 8 2016, M. Kemal (Cesa)



Fig. 42 – Coriomeris aff. affinis, from Bahçesaray, Upper Mukus Valley. Dorsal view of pronotum, head and basal segments of antenna (left), ventral view of genital part of abdomen and spines of posterior femur (right), M. Kemal (Cesa)



Fig. 43 – *Coriomeris denticulatus*, from Bahçesaray Su Fabrikası. Dorsal view of pronotum, head and basal segments of antenna (left), ventral view of genital part of abdomen and spines of posterior femur (right), M. Kemal (Cesa)

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